



## Cornell Horticulture

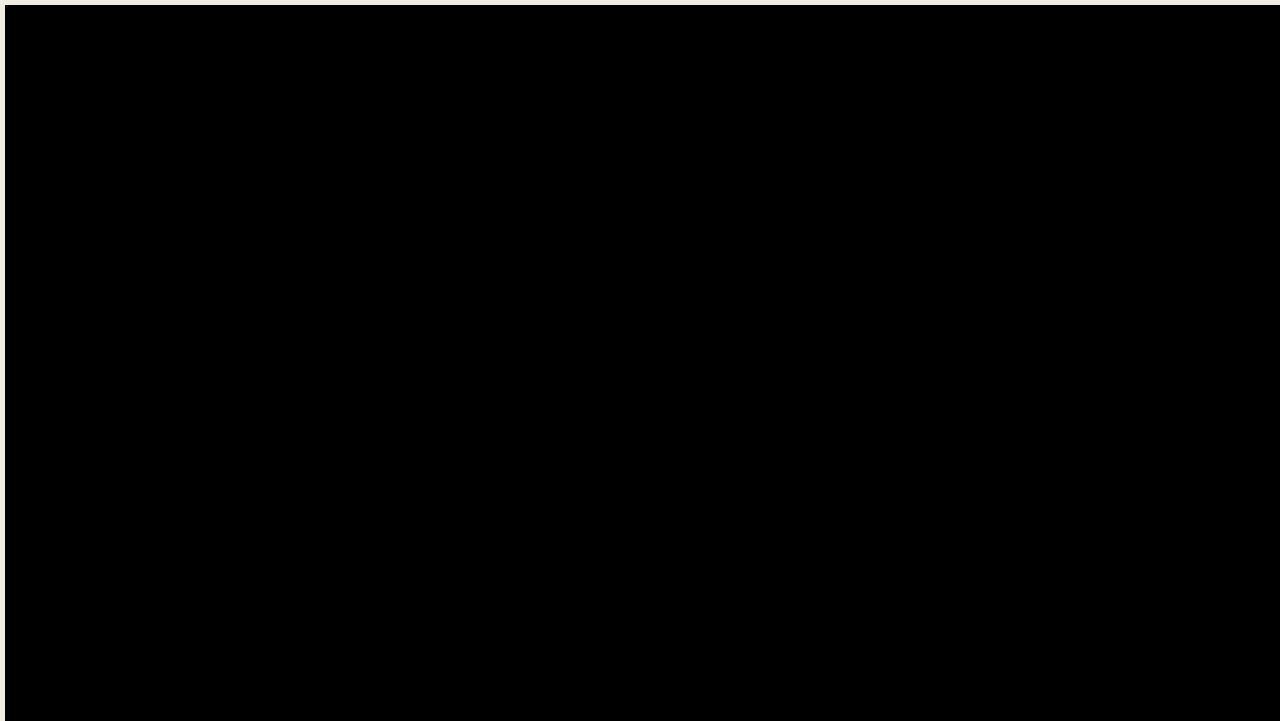
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ABOUT



### Grape bud imaging

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Al Kovaleski, PhD student in the [Graduate Field of Horticulture](#), [School of Integrative Plant Science](#), used X-ray phase contrast imaging to create [this video](#) of a grapevine bud.

Kovaleski is using the technology to visualize the inner portions of buds to observe how they are damaged by freezing temperatures, a critical issue with the increase in extreme weather events — like late spring frosts — brought on by climate change.

Imaging was performed at the [Cornell High Energy Synchrotron Source](#) which is supported by the NSF & NIH/NIGMS via award DMR-1332208.

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